

2003-Air Show Mountain Home

AER

USAF Thunderbird (F-16)

Aircraft Crash

14 Sept 03

BE Flight



OVERVIEW

- Background Information
- Hazardous Components of an F16 Aircraft
- Sample Results
 - Area Samples
 - Personal Samples



Background Information

- **USAF Thunderbird F-16 Crash-2003 Air Show:**
 - *14 Sept 03 @ 1515*
 - *Near Control Tower*
 - *South of Flight-line*
- **Pilot Ejected Safely**
- **No AF Members/Spectators/1st Responders were Injured**



Background Information

- **BE Flight Responsible for:**
 - All 1st Responder-Occupational Health Protection
 - All Crash Recovery-Forces Occupational Health Protection
 - All Crash Recovery-Forces Occupational Health Sampling
 - Environmental sampling, with CEV as lead
- **Bottom Line:**
 - No one hurt
 - No one overexposed
 - “Textbook” Joint Response with Base Partners CEX, CEF, CEV, Comm, etc



F-16 Airframe Materials

F-16.7

F-16

T.O. 00-105E-9

AIRFRAME MATERIALS

LEGEND

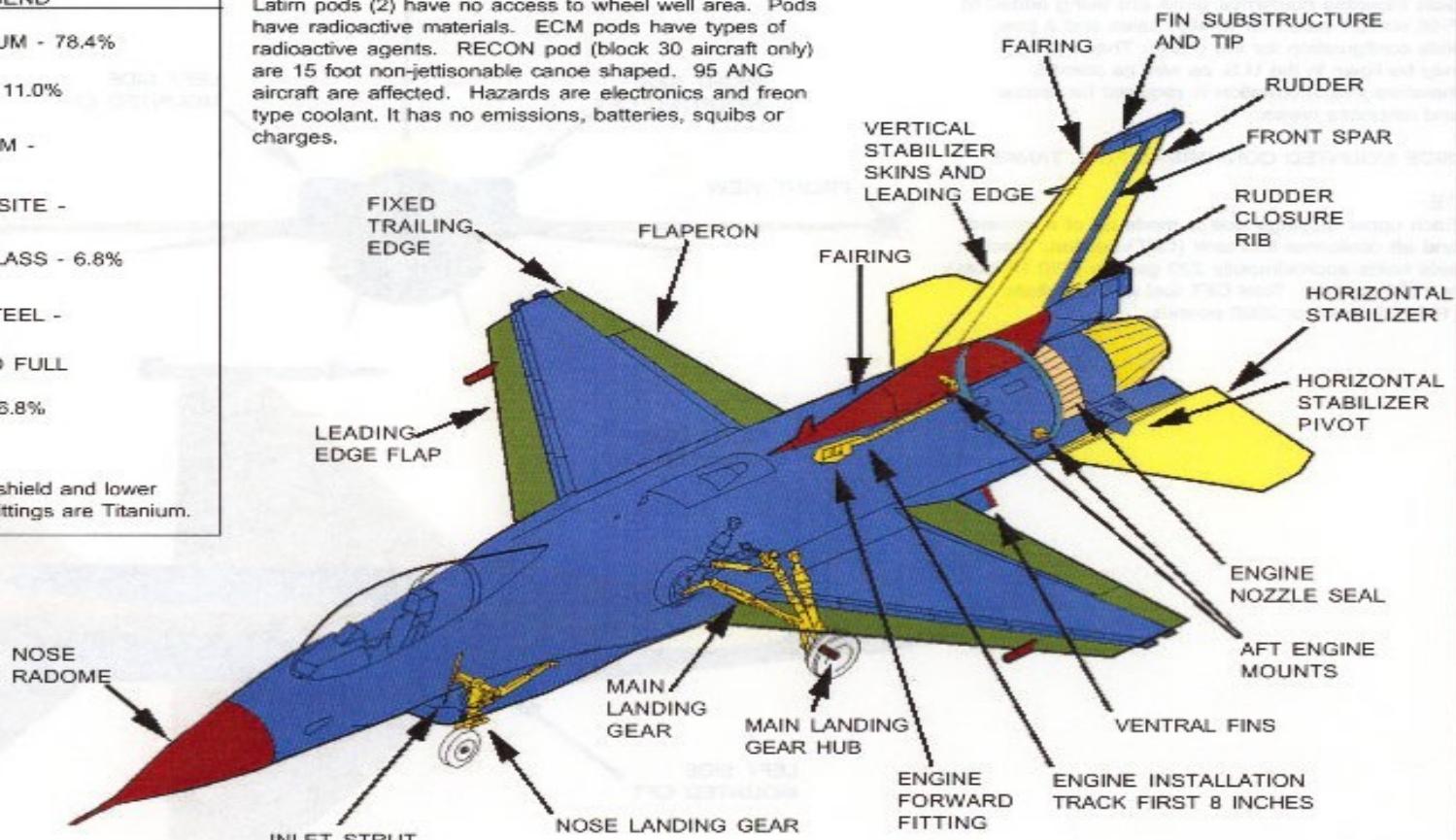
■	ALUMINUM - 78.4%
■	STEEL - 11.0%
■	TITANIUM - 0.8%
■	COMPOSITE - 3.0%
■	FIBERGLASS - 6.8%
■	M300 STEEL - 6.8%
■	BONDED FULL DEPTH CORE - 6.8%

NOTE:

Engine heat shield and lower wing attach fittings are Titanium.

WARNING

Lateral pods (2) have no access to wheel well area. Pods have radioactive materials. ECM pods have types of radioactive agents. RECON pod (block 30 aircraft only) are 15 foot non-jettisonable canoe shaped. 95 ANG aircraft are affected. Hazards are electronics and freon type coolant. It has no emissions, batteries, squibs or charges.



Sampling Point Locations at Crash Site

ECP

S1A
S1B

A1A A1B

A2B

A2

A

A2B

S2
E



S2D

S2A/S2
B

S2C

X
Impact Location



Air-Traffic Control Tower

Sample Results- Area Samples

- Entry Control Point (ECP)
- Impact Locations
- F-16 Removal



Area Samples

- Bottom Line:
 - **No Asbestos detected**
 - ***Extremely low levels of other fibers detected - no health threat***
 - ***No AF Member overexposed***



Area Samples- ECP Locations

14 Sept 03



Area Sample Results

Summary-ECP Locations

14 Sept 03

Sampling Analyte	Analytic al Method	8-Hr TWA Results (f/cc)	8-Hr OEL (f/cc)	Above Result s (y/n)
Asbestos	7402-TEM	N/D	0.1	N
All Other Fibers	7402-TEM	0.00000000 4-0.000175	N/A	N/A



Area Samples- Impact Locations

15 Sept 03



Air Sampling Results Summary Impact Locations -15 Sept

Sampling Analyte	Analytical Method	038-Hr TWA Results (f/cc)	8-Hr OEL Results (f/cc)	Above Results (y/n)
Asbestos	7402-TEM	N/D	0.1	N
All Other Fibers	7402-TEM	0.00000000 4-0.0001	N/A	N/A

Notes:

-- All Other Fibers contain
Aluminum Silicate, Organic & Silicon

--8 Hr-TWA: Time Weighted Average

--8 Hr-OEL: Occupational exposure Limit

--f/cc: fibers per cubic centimeter

--N/D: None Detected

Area Samples-

F-16 Removal

(Impact Locations)

21 Sept 03



Area Sample (T-10 Removal)

Results Summary-21 Sept

Sampling Analyte	Analytical Method	038-Hr TWA Results (f/cc)	8-Hr OEL Results (f/cc)	Above Result s (y/n)
Asbestos	7402-TEM	N/D	0.1	N
All Other Fibers	7402-TEM	0.00000000 4-0.0003	N/A	N/A

Notes:

-- All Other Fibers contain *Aluminum Silicate, Boron & Silicon*

--8 Hr-TWA: *Time Weighted Average*

--8 Hr-OEL: *Occupational exposure Limit*

--f/cc: *fibers per cubic centimeter*

--N/D: *None Detected*

Personal Samples



Personal Samples

- **Bottom Line:**

- Personnel lifted/loaded F-16 by crane onto a flatbed trailer to be transported to hangar during the afternoon session
- No Asbestos detected
- Extremely low levels of other fibers detected - no health threat
- No AF Member overexposed



Personal Sample Results Summary

21 Sept 03

Sampling Analyte	Analytical Method	8-Hr TWA Results (f/cc)	8-Hr OEL Results (f/cc)	Above Result S (y/n)
Asbestos	7402-TEM	N/D	0.1	N
All Other Fibers	7402-TEM	0.000003-0.000004	N/A	N/A
Respirable Particulates	0600-Respirable	0.13	3.0	N

Notes:

-- All Other Fibers contain *Aluminum Silicate, Organic & Man-made*

--8 Hr-TWA: Time Weighted Average

--8 Hr-OEL: Occupational exposure Limit

--f/cc: fibers per cubic centimeter